

PATENT  
TH1647 04 (US)  
JYK:EM

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the accompanying application of )  
CHARLES L. EDWARDS, KIRK H. RANEY, )  
and PAUL G. SHPAKOFF )

This is a division of Serial No. 10/025,080 )  
filed December 19, 2001 )

BRANCHED PRIMARY ALCOHOL )  
COMPOSITIONS AND DERIVATIVES )  
THEREOF )

October 3, 2003

COMMISSIONER FOR PATENTS  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.56 AND 1.97

It is respectfully requested that the documents listed on the attached Form PTO-1449 be considered by the Patent and Trademark Office in the above-entitled application and made of record therein. A full text copy of the newly cited reference (in bold print on the PTO-1449 form) is enclosed. Copies of the other referenced documents are not provided since they were previously submitted to the Office in the parent application, Serial No. 10/025,080 filed December 19, 2001.

The Examiner is requested to indicate consideration of this art on the attached PTO-1449 (Modified) by initialing next to each item submitted by the Applicants.

Respectfully submitted,

CHARLES L. EDWARDS, KIRK H. RANEY,  
and PAUL G. SHPAKOFF

By   
Their Attorney, Jeffrey Y. Kao  
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FORM PTO-1449 (M dified)

**LIST OF INFORMATION PROVIDED  
BY APPLICANT**  
(Use several sheets if necessary)

ATTY. DOCKET NO.  
TH1647 04 (US)

APPLICATION NUMBER

APPLICANT  
C. L. Edwards et al.

FILING DATE

GROUP ART UNIT

**REFERENCE DESIGNATION****U.S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AA	3,676,523	7/11/72	Mason	260	683.15D	
	AB	3,686,351	8/22/72	Mason	260	683.15D	
	AC	3,737,475	6/5/73	Mason	260	683.15D	
	AD	3,825,615	7/23/74	Lutz	260	683.15D	
	AE	4,020,121	4/26/77	Kister et al.	260	683.15D	
	AF	4,021,447	5/3/77	Rubin et al.	260	326.8	
	AG	3,702,886	11/14/72	Argauer et al.	423	328	
	AH	3,709,979	1/9/73	Chu	423	328	
	AI	3,832,449	8/27/74	Rubin et al.			

**FOREIGN PATENT DOCUMENTS**

		Document No.	Date	Country	Class	Subclass	Translation Yes No	
	AL	WO 94/05761	3/17/94	World	C11D	3/10		
	AM	1,429,143	3/24/76	Great Britain	C11D	10/02		
	AN	WO 99/42553	8/26/99	World	C11D	3/43		
	AO	0,884,298 A2	12/16/98	Europe	C07C	43/10	X	

**OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)**

	AR	Myers, Drew, "Surfactant Science and Technology," pp. 82-85, VCH Publishers, Inc. (New York, NY, USA) 1988 (ISBN 0-89573-399-0)
	AS	K. Shinoda, "Principles of Solution and Solubility," translation in collaboration with Paul Becher, published by Mercel Dekker, Inc. 1978, pp. 292-304
	AT	Reid, V.W., G.F. Longman and E. Heinerth, "Determination of Anionic-Active Detergents by Two-Phase Titration," <u>Tensile</u> 4, 1967, pp. 292-304

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

- The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
- This is not a representation that a search has been made.

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Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	BA	4,482,531	11/13/84	Kuehl	423	329	
	BB	3,950,496	4/13/76	Ciric	423	328	
	BC	3,972,983	8/3/76	Ciric	423	328	
	BD	4,046,859	9/6/77	Plank et al.	423	328	
	BE	4,247,416	1/27/81	Doherty et al.	252	428	
	BF	4,086,186	4/25/78	Rubin et al.	252	430	
	BG	4,046,859	9/6/77	Plank et al.	423	328	
	BH	4,287,166	9/1/81	Dwyer et al.	423	325	
	BI	4,247,728	1/27/81	Rubin et al.	585	467	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No	
	BL	06073045	3/15/94	Japan	C07D	273/08	X	
	BM	03261779	11/21/91	Japan	C07D	309/24	X	
	BN	JP 11-349507	12/21/99	Japan	C07C	43/11	X	
	BO	100 20 899 A1	10/25/01	Germany	C07D	493/04	X	

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	BR	B. E. Gordon, H. Roddewig and W. T. Shebs, "A Double Label Radiotracer Approach to Detergency Studies," Journal of American Oil Chemists' Society, Vol. 44, No. 5 (1967) pp. 289-294
	BS	W. T. Shebs and B. E. Gordon, "Improvements in Detergency Precision With Radioactive Soil," Journal of American Oil Chemists' Society, Vol. 45, No. 5 (1968) pp. 377-380
	BT	W. T. Shebs, "Radioisotope Techniques in Detergency," Chapter 3, <u>Detergency Theory and Technology</u> , Marcel Dekker, Inc., New York (1987) pp. 125-191

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Examiner Initial		Document No.	Date	Patentee	Class	Subclass	Filing Date if Appropiat
	CA	4,495,303	1/22/85	Kuehl	502	62	
	CB	4,397,827	8/9/83	Chu	423	326	
	CC	4,640,829	2/3/87	Rubin	423	328	
	CD	4,568,654	2/4/86	Valyocsik	502	62	
	CE	4,698,217	10/6/87	Valyocsik	423	328C	
	CF	4,647,442	3/3/87	Derouane et al.	423	306	
	CG	4,619,818	10/28/86	Derogane et al.	423	306	
	CH	4,954,325	9/4/90	Rubin et al.	423	328	
	CI	5,236,575	8/17/93	Bennett et al.	208	46	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	CL							
	CM							
	CN							
	CO							

## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	CR	Roger Hunter et al., "Allylation Using Allylborates," TETRAHEDRON, Vol. 50, No. 3, 1994, pp. 871-888
	CS	Birgit Bartels et al., "A Selectivity of Activated Ketal Reduction With Borane Dimethyl Sulfide," JOURNAL OF ORGANIC CHEMISTRY, Vol. 58, No. 24, 1993, pp. 6756-6765
	CT	T. Hosokawa et al., "Palladium (II)-Catalyzed Acetalization of Terminal Olefins Bearing Electron-Withdrawing Substituents With Optically Active Diols," JOURNAL OF ORGANIC CHEMISTRY, Vol. 52, 1987, pp. 1958-1764

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REFERENCE DESIGNATION U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	DA	3,308,069	3/7/67	Wadlinger et al.	252	455	
	DB	Re. 28,341	2/18/75	Wadlinger, et al.	208	120	
	DC	3,058,805	10/16/62	Weber	23	113	
	DD	3,130,007	4/21/64	Breck	23	113	
	DE	3,996,337	12/7/76	Stabenow et al.	423	328	
	DF	4,440,871	4/3/84	Lok et al.	502	214	
	DG	5,059,567	10/22/91	Linsten et al.	502	64	
	DH	3,462,525	8/19/69	Levinsky	424	56	
	DI	3,428,654	2/18/69	Rubinfeld et al.	260	327	

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
	DL						
	DM						
	DN						
	DO						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)		
	DR	F. Wang et al., Synlett, (1998) pp. 245-245
	DS	A. A. Volkov et al., Dokl. Chem. 283, (1985), pp. 246-248
	DT	International Search Report of 5 July 2002

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REFERENCE DESIGNATION				U.S. PATENT DOCUMENTS			
Examiner Initial		Document Number	Date	Patentee	Class	Subclass	Filing Date if Appropriate
	EA	3,420,875	1/7/69	Di Salvo et al.	260	513	
	EB	3,506,580	4/14/70	Rubinfeld et al.	252	138	
	EC	3,579,537	5/18/71	Rubinfeld et al.	260	327	
	ED	3,524,864	8/18/70	Rubinfeld et al.	260	327	
	EE	5,057,627	10/15/91	Edwards	568	618	
	EF	6,087,311	7/11/00	Van Dijk	510	294	
	EG	6,083,893	7/4/00	Zint et al.	510	221	
	EH	6,159,920	12/12/00	Ridyard	510	324	
	EI	6,153,574	11/28/00	Janssen	510	224	

  

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	EL						
	EM						
	EN						
	EO						

  

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	ER      Anionic Surfactants, Volume 7, Part I, edited by Warner M. Linfield, 1976 by Marcel Dekker, Inc.
	ES
	ET

  

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	FA	2,778,855	1/22/57	Shokal et al.	260	613	
	FB	4,503,275	3/5/85	Harris et al.	568	866	
	FC	4,317,938	3/2/82	Lutz	568	619	
	FD	4,721,816	1/26/88	Edwards	568	618	
	FE	4,721,817	1/26/88	Edwards	518	618	
	FF	2,808,442	10/1/57	Smith et al.	260	611	
	FG	5,912,408	6/15/99	Trinh et al.	8	142	
	FH	4,544,512	10/1985	Hozumi et al.	558	169	
	FI						

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	FL							
	FM							
	FN							
	FO							

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